Pending Claims

- 1. (previously presented) A process to isolate a neurotrophin from a mixture containing variants of said neurotrophin, wherein the process comprises: a) purifying a neurotrophin mixture; b) loading the mixture containing the neurotrophin onto a hydrophobic interaction chromatography resin; c) eluting the neurotrophin from the resin with an elution buffer under conditions in which the neurotrophin separates from the variant; and d) collecting the neurotrophin.
- 2. (previously presented) The process of claim 1, wherein said purifying comprises affinity chromatography.
- 3. (previously presented) The process of claim 1, wherein said purifying comprises purifying with chromatography on silica.
- 4. (previously presented) The process of claim 1, wherein said purifying comprises purifying with chromatography on heparin Sepharose
- 5. (previously presented) The process of claim 1, wherein said purifying comprises purifying with chromatography on an anion exchange resin.
- 6. (previously presented) The process of claim 1, wherein said purifying comprises purifying with chromatography on a cation exchange resin.
- 7. (previously presented) The process of claim 1, wherein said purifying comprises purifying with chromatofocusing.
- 8. (previously presented) The process of claim 1, wherein said purification comprises purifying with preparative SDS-PAGE.
- 9. (previously presented) The process of claim 6, wherein said cation exchange resin comprises a polyaspartic acid column.
- 10. (previously presented) The process of claim 1, wherein the resin comprises a phenyl functional group.

- 11. (previously presented) The process of claim 10, wherein the resin is a sulphopropyl sepharose high performance (SP-Sepharose HP), poly aspartic acid resin, polysulfoethyl cation exchange resin, or sulfoisobutyl (SO₃) resin.
- 12. (previously presented) The process of claim 10, further comprising the step of separating the neurotrophin from a misfolded variant of that neurotrophin using preparative reversed-phase liquid chromatography resin.
- 13. (previously presented) The process of claim 12, wherein the resin contains a carbon at position 4 (C4) functional group.
- 14. (previously presented) A composition prepared by the method of claim 1 comprising a neurotrophin.
- 15. (previously presented) A composition prepared by the method of claim 1 comprising a mixture of neurotrophins.
- 16. (previously presented) The composition of claim 15 wherein said mixture of neurotrophins comprises NGF and at least one other neurotrophin.
- 17. (previously presented) The composition of claim 15 wherein said mixture of neurotrophins comprises at least two neurotrophins selected from the group consisting of NGF, NT-4/5, NT-3, BDNF, and homologs thereof.
- 18. (previously presented) The process of claim 1, wherein said loading of said mixture comprises loading a mixture having a volume of at least about 700 mL onto a hydrophobic interaction chromatography resin.
- 19. (previously presented) The process of claim 1, wherein said loading of said mixture comprises loading a mixture having a volume of at least about 1200 mL onto a hydrophobic interaction chromatography resin.
- 20. (previously presented) A process to isolate a neurotrophin from a mixture containing variants of said neurotrophin, wherein the process comprises: a) purifying a neurotrophin mixture prepared from cells; b) loading the mixture containing the neurotrophin onto a hydrophobic interaction chromatography resin; and c) eluting the

neurotrophin from the resin with an elution buffer under conditions in which the neurotrophin separates from the variant.